



# MATERIAL SAFETY DATA SHEET

## 1. Chemical product and company identification

**A. Product name** F0L23Series

**B. Recommended use and Limitations on use**  
**Recommended use** Inkjet printing

**C. Supplier information**  
 HP Korea House  
 23-6 Yoido-dong  
 Youngdeungpo-gu  
 Seoul 150-742, Korea

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**(Toll-free within the US)** 1-800-457-4209  
**(Direct)** 1-760-710-0048

**HP Inc. Customer Care Line**  
**(Toll-free within the US)** 1-800-474-6836  
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**Email:** hpcustomer.inquiries@hp.com

## 2. Hazards identification

### A. Hazard category/Classification

**Physical hazards** Not classified.

**Health hazards** Serious eye damage/eye irritation Category 2

**Environmental hazards** Not classified.

### B. Warning label items including precautionary statement

• Pictogram



• **Signal word** Warning

• **Hazard statement**  
H319 Causes serious eye irritation.

• **Precautionary statement**

**Prevention**

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P264 Wash hands thoroughly after handling.

**Response**

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337 + P313 If eye irritation persists: Get medical advice/attention.

**C. Other hazards not included in the hazard category criteria (e.g. dust explosion hazard)**

Potential routes of overexposure to this product are skin and eye contact. Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this product under normal use conditions. Complete toxicity data are not available for this specific formulation.

**Supplemental information** None.

## 3. Composition/information on ingredients

Chemical identity	Common and alternative names	CAS number	ID number	Content in percent (%)
Alkyldiol		Proprietary	Proprietary	<15
Substituted naphthalenesulfonate salt		Proprietary	Proprietary	<4

**Composition comments** This ink supply contains an aqueous ink formulation.

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#### 4. First aid measures

- A. In case of eye contact** Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists get medical attention.
- B. In case of skin contact** Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
- C. In case of inhalation** Remove to fresh air. If symptoms persist, get medical attention.
- D. In case of swallowing** If ingestion of a large amount does occur, seek medical attention.
- E. Note to physician** Not available.
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#### 5. Fire-fighting measures

- A. Suitable (and unsuitable) extinguishing media**
- Suitable extinguishing media** Dry chemical, CO<sub>2</sub>, water spray or regular foam.
- Unsuitable extinguishing media** None known.
- B. Specific hazards arising from the chemical (example: hazardous combustion products)** None known.
- C. Specific methods of fire-fighting** Not available.
- General fire hazards** Contact with skin and eyes may result in irritation.
- Specific methods** None established.
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#### 6. Accidental release measures

- A. Personal precautions, protective equipment and emergency measures** Wear appropriate personal protective equipment.
- B. Environmental precautions** Do not let product enter drains. Do not flush into surface water or sanitary sewer system.
- C. Methods and materials for containment and cleaning up** Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.
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#### 7. Handling and storage

- A. Precautions for safe handling** Avoid contact with skin, eyes and clothing.
- B. Conditions for safe storage (including any incompatibilities)** Keep out of the reach of children. Keep away from excessive heat or cold.
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#### 8. Exposure controls/personal protection

- A. Exposure limit values, biological limit values, etc**  
No exposure limits noted for ingredient(s).
- Biological limit values** No biological exposure limits noted for the ingredient(s).
- Exposure guidelines** Exposure limits have not been established for this product.
- B. Appropriate engineering controls** Use in a well ventilated area.
- C. Personal protective equipment**
- **Respiratory protection** Not available.
  - **Eye protection** Not available.
  - **Hand protection** Recommended gloves: Nitrile 4 mil minimum thickness.
  - **Body protection** Not available.
- Hygiene measures** Handle in accordance with good industrial hygiene and safety practice.
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#### 9. Physical and chemical properties

- A. Appearance**
- Physical state** Liquid.
- Form** Not available.
- Color** Black.
- B. Odor** Not available.
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<b>C. Odor threshold</b>	Not available.
<b>D. pH</b>	7 - 8
<b>E. Melting point/freezing point</b>	Not available.
<b>F. Boiling point, initial boiling point, and boiling range</b>	Not determined
<b>G. Flash point</b>	> 200.0 °F (> 93.3 °C) Setaflash Closed-Cup Method EPA Method 1020A
<b>H. Evaporation rate</b>	Not determined
<b>I. Flammability (solid, gas)</b>	Not available.
<b>J. Upper/lower limit on flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not determined
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>K. Vapor pressure</b>	Not determined
<b>L. Solubility</b>	
<b>Solubility (water)</b>	Soluble in water
<b>M. Vapor density</b>	Not available.
<b>N. Specific gravity</b>	Not available.
<b>O. n-octanol/water partition coefficient</b>	Not available.
<b>P. Auto-ignition temperature</b>	Not available.
<b>Q. Decomposition temperature</b>	Not available.
<b>R. Viscosity</b>	>= 2 cp
<b>S. Molecular weight</b>	Not available.
<b>Other data</b>	
<b>Oxidizing properties</b>	Not determined
<b>VOC</b>	< 124.2 g/l Estimated

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## 10. Stability and reactivity

### A. Stability and hazardous reaction potential

<b>Stability</b>	Stable under recommended storage conditions.
<b>Hazardous reaction potential</b>	Will not occur.

**B. Conditions to avoid (e.g. static discharge, shock or vibration, etc)** Not available.

**C. Incompatible materials** Incompatible with strong bases and oxidizing agents.

**D. Hazardous decomposition products** Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

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## 11. Toxicological information

### A. Information on likely routes of exposure

- **Respiratory organs** Inhalation may result in mild irritation to the respiratory system.
- **Skin** Contact with skin may result in mild irritation.
- **Eyes** Causes serious eye irritation.
- **Mouth** Ingestion is not a likely route of exposure.

### B. Information on health hazards

- **Acute toxicity (list all possible routes of exposure)** Based on available data, the classification criteria are not met.
- **Corrosivity or irritation to the skin** Based on available data, the classification criteria are not met.
- **Serious eye damage/eye irritation** Moderate irritant in rabbit (OECD 405).
- **Respiratory sensitization** Based on available data, the classification criteria are not met.

• <b>Skin sensitization</b>	Based on available data, the classification criteria are not met.
• <b>Carcinogenic properties /Carcinogenicity</b>	Based on available data, the classification criteria are not met.
• <b>Mutagenic properties /Mutagenicity</b>	Based on available data, the classification criteria are not met.
• <b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.
• <b>Specific target organ toxicity - single exposure</b>	Based on available data, the classification criteria are not met.
• <b>Specific target organ toxicity - repeated exposure</b>	Based on available data, the classification criteria are not met.
• <b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.

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## 12. Ecological information

<b>A. Ecotoxicity</b>	No data available.
<b>Aquatic toxicity</b>	LC50/96h/Fathead minnows => 400 mg/l EC50/48h/daphnia => 100mg/l, OECD 202 EC50/72h/algae => 100 mg/l, OECD 201
<b>B. Persistence/degradability</b>	Not available.
<b>C. Bioaccumulative potential</b>	Not available.
<b>D. Mobility in soil</b>	Not available.
<b>E. Other adverse effects</b>	Not available.

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## 13. Disposal considerations

<b>A. Method of disposal</b>	Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.  HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkjet and LaserJet supplies. For more information and to determine if this service is available in your location, please visit <a href="http://www.hp.com/recycle">http://www.hp.com/recycle</a> .
<b>B. Disposal considerations (including disposal of contaminated containers or packaging)</b>	Not available.

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## 14. Transport information

<b>DOT</b>	Not regulated as dangerous goods.
<b>IATA</b>	Not regulated as dangerous goods.
<b>IMDG</b>	Not regulated as dangerous goods.
<b>ADR</b>	Not regulated as dangerous goods.
<b>Further information</b>	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

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## 15. Regulatory information

<b>A. Restrictions under the Industrial Safety and Health Law</b>
<b>Harmful Substances Prohibited from Manufacturing</b>
Not regulated.
<b>Harmful Substances Requiring Permission for Manufacture or Use</b>
Not regulated.
<b>Controlled Hazardous Substances</b>
Not regulated.
<b>Harmful Substances Requiring Special Medical Examination</b>
Not regulated.
<b>Workplace Environmental Monitoring Harmful Materials</b>
Not regulated.
<b>Occupational Exposure Limit</b>
Not regulated.

**B. Restrictions under the Chemicals Control Law (Previously Toxic Chemicals Control Law)**

**Accidental Release Prevention Substances**

Not regulated.

**Observational Chemicals**

Not regulated.

**C. Restrictions under the Dangerous Substance Safety Management Act**

**D. Restrictions under the Wastes Control Act**

**Halogenated Materials in Waste Organic Solvents**

Not regulated.

**Hazardous Substances**

Not regulated.

**E. Restrictions under other foreign or domestic laws**

**Clean Air Conservation Act**

**Air Pollutants**

Not regulated.

**Specific Air Pollutants**

Not regulated.

**Act on the Registration and Evaluation of Chemicals**

**Banned Toxic Chemicals**

Not regulated.

**Designated Existing Chemicals Subject to Registration (PEC) (MoE No. 2015-92)**

Not listed.

**Restricted Chemical Substances**

Not regulated.

**Toxic Chemicals**

Not regulated.

**Regulatory information**

All chemical substances in this HP product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.

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**16. Other information**

**A. Source of information**

Not available.

**B. Issue date**

14-Apr-2016

**C. Number of revisions and date of most recent revision**

17-May-2019 (06 revision)

**D. Other**

Not available.

**Disclaimer**

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**Revision information**

3. Composition / Information on Ingredients: Ingredients  
Toxicological information: Eye contact  
GHS: Classification

## Explanation of abbreviations

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>CAS</b>	Chemical Abstracts Service
<b>CERCLA</b>	Comprehensive Environmental Response Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>COC</b>	Cleveland Open Cup
<b>DOT</b>	Department of Transportation
<b>EPCRA</b>	Emergency Planning and Community Right-to-Know Act (aka SARA)
<b>IARC</b>	International Agency for Research on Cancer
<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>REC</b>	Recommended
<b>REL</b>	Recommended Exposure Limit
<b>SARA</b>	Superfund Amendments and Reauthorization Act of 1986
<b>STEL</b>	Short-Term Exposure Limit
<b>TCLP</b>	Toxicity Characteristics Leaching Procedure
<b>TLV</b>	Threshold Limit Value
<b>TSCA</b>	Toxic Substances Control Act
<b>VOC</b>	Volatile Organic Compounds